TOWN of Wellfleet
Request for Information (RFI)
Engineering Services for
Wellfleet Municipal Water System Expansion to Outer Cape Health Services via Briar Lane

I. GENERAL SCOPE OF WORK

The Town of Wellfleet (The TOWN) is seeking proposals from Civil Engineering Companies in Massachusetts (DESIGNERS) to submit nonbinding proposals for preliminary engineering services stating their qualifications and cost estimates to provide engineering services in connection with the following project: **Wellfleet Municipal Water System Expansion to Outer Cape Health Services via Briar Lane**. This will be a two-stage project: STAGE 1 - Schematic Design and Construction Procurement Services; and STAGE 2 – Loan/Grant Assistance Services and Project Management & Construction Oversight. It is anticipated that STAGE 1, which will include the design, permitting and construction procurement portion of the project to be completed between July 1, 2016 and September 30, 2016; STAGE 2, which will include the construction and project oversight portion of this project is anticipated to be completed between November 15, 2016 and January 31, 2017. The purpose of this informal request is to assist TOWN voters in making an informed decision for estimated funds needed for STAGE 1 of this project. No contracts will be awardedbased upon this request. If funding is appropriated at the April 25, 2016 Annual Town Meeting a separate procurement process will be undertaken.

Submittals of proposals including cost estimates for STAGE 1 of the anticipated project will be accepted until **2:00 PM. EST on April 22, 2016** via email to michaela.miteva@wellfleet-ma.gov with subject line "**Wellfleet Municipal Water System Expansion to Outer Cape Health Services via Briar Lane."**

II. SYSTEM BACKGROUND INFORMATION: The Wellfleet Municipal System (WMWS) background information is provided as Attachment 1 and the current System Design is provided as Attachment 2.

III. ADDITIONAL INFORMATION: Questions and requests for additional information concerning this solicitation must be submitted in writing to: Michaela Miteva, EA to the Town Administrator, 300 Main Street, Wellfleet, MA 02667, email: michaela.miteva@wellfleet-ma.gov before 2:00 PM on April 15, 2016. Questions may be delivered, mailed, emailed, or faxed. All questions will be also answered in writing.

IV. MINIMUM QUALIFICATIONS: The minimum qualifications and comparative evaluation criteria are set forth below. Each applicant must be a Civil Engineering Company registered and licensed to operate in Massachusetts and must have experience in the design of public drinking water systems.

END OF NONBINDING REQUEST FOR PROPOSAL

ATTACHMENT 1

SYSTEM BACKGROUND

The original Wellfleet municipal public water system was constructed in the late 1980's and was comprised of 2 public water supply wells (Coles Neck Wells), a pump station building, a hydro-pneumatic storage tank system and approximately 11,000 linear feet of 4-inch water main. The two original wells are located off Grist Mill Lane in the northeast area of TOWN, and were limited to a maximum daily pump rate of 20,000 GPD due to a restricted Zone I area. The initial service area was located in the vicinity of the TOWN's landfill in the northwest area of TOWN, and was comprised of approximately 35 residential services.

The water system was expanded in 2004, adding approximately 11,000 linear feet of 8-inch and 12-inch water main. The expanded water main passes through the TOWN's Central District and extends to the Marina. Municipal buildings (the DPW, TOWN Hall and Library) were connected to the water system, in addition to five buildings at the marina complex. A SCADA and Corrosion Control project completed in 2004 provides the ability to monitor and change functions of the water system based on real time conditions displayed at the computer terminal in the DPW offices or from a remote location. The corrosion control process (pH adjustment using KOH) is located in the existing pump station building. The functions of the SCADA system include the control/adjustment of pumping rates, control/adjustment of chemical dosage and monitoring of flow, pressure, well level and pH at the pump station. The SCADA system also provides alarm notification if the system exceeds any normal operating thresholds.

In 2005 a third production well was added at the Coles Neck Wellfield, with approval for pumping up to 100,000 GPD into the water system through the existing treatment works building. The new well was developed to supplement the existing water supply and provide redundancy and flexibility to the water system. A plan of the water system has been included in Appendix B.

In addition to the Coles Neck wells and distribution system, the TOWN operates six transient, non-community (TNC) wells at remote beaches and facilities. They include: Gull Pond, Maguire Landing, Newcomb Hollow Beach, White Crest Beach, Wellfleet Senior Center, and Wellfleet Marina (used for boat washdown and bathhouse toilets only).

The existing Wellfleet public water system is classified as a 1T treatment facility and the distribution is classified as a Very Small System (VSS).

PHASE I: 2009-2010 System Expansion. The expansion of the system in 2009 and 2010 included approximately 19,500 feet of 8 and 12-inch ductile iron pipe and a 500,000 gallon elevated storage tank off Lawrence Road. The expansion work totaled approximately $6M. Two (2) new gravel-packed wells with submersible pumps were installed at the Boy Scout Camp Well (BSCW) site, with a small precast

concrete building to house a KOH feed system similar to the system at Coles Neck, and electrical and control system panels. Refer to Figure 1 for the location of the BSCW, storage tank and watermains.

As part of the work, service stubs and curb stops were installed for all abutters to the system expansion and along the older watermains installed in 2004 (i.e. from Pole Dike Road to Kendrick Avenue via West Main Street, Main Street, Bank Street, and Commercial Street). There are approximately 380 curb stops. At the present time (March 2012), there are approximately 129 customers using the system, and 62 customers who have applied for future connections. Most of the properties abutting the existing water system have been provided with a curb stop. Those properties abutting the existing system, without curb stops, are eligible for connection. The Board of Water Commissioners is encouraging abutters to connect through the use of a staggered discount on the connection fee.

In addition, an automatic meter reading (AMR) system was installed in 2010 using a radio-based "Hot Rod" capability which allows meters to be read by driving throughout the TOWN. Older meters were replaced with new meters. All customers with connections to the expanded system have been provided with a meter. The "Hot Rod" meter reading system connects to the billing system by means of EasyReader software. The Water System Coordinator then prepares bills for Water System customers based on this information. The data is collected twice a year for semi-annual billing.

PHASE II: 2013-2014 System Expansion.
The expansion of the system in 2013 and 2014 included approximately 6,000 feet of 8 and 12-inch ductile iron pipe water main and added 78 new residential customers. The expansion work totaled $1.5M.

ATTACHMENT 2 – MAP OF THE EXISTING WATER SYSTEM